

The role of different factors in changes in energy consumption in Iran during 1988–2001: An input–output analysis

Topic: Physical and hybrid input-output tables 2

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The energy consumption has increased in Iran in recent years. This paper intends to identify the contribution of different factors in the changes in energy consumption in Iran. To this end, a hybrid energy input–output table is constructed. The changes in energy consumption are attributed to several factors such as technology and production level. The input-output tables for the years 1988 and 2001 are used as databases. The results of the study show that although structure of final demand and somewhat the energy intensity of products totally lead to a decline in the energy consumption, the increment in the final demand and technical coefficients lead to 81.3% growth in energy consumption in the country. In a more detailed investigation, the increment in the energy consumption returns to five products in which the increasing in the energy intensity has a considerable role in the growth in energy consumption in the country.

Keywords: Structural Decomposition Analyses, Hybrid I-O Table, Energy Consumption, Iran.